

**Amendments to the Specification:**

Replace the paragraph beginning on page 18 line 17 with the following rewritten paragraph:

As illustrated in Figures 6 and 7A-B, electrode leads 170a and 170b are connected to the connection electrodes 430 and 431, and located near the edge of the module, e.g., the electrode or reference edge 134. Figure 7C shows the ends of the leads 170a and 170b having termination holes 700 and 702 for series connection to wires or other connectors.

Replace the paragraph beginning on page 19 line 7 with the following rewritten paragraph:

As illustrated in Figure 9, the wire or internal module copper tape leads 170a and 170b are connected in series with connectors 430 and 431 of module 110. Specifically, the positive leads 170b – 174b and negative leads 171a-175a of modules 110-115 of the first group 210 are connected in series by connectors 431-435, and the positive leads 176b-180b and the negative leads 177a-181a of modules 117-121 are connected in series by connectors 437-441 in the second group 212. The negative lead ~~175b~~ 176a and the positive lead 175b of modules 115 and 116 are also connected by cross connector 436, thus completing the series connection of the modules 110-121. Negative and positive “quick-connect” plugs 920 and 922 terminate the ends of leads 430 and 442 external to the encapsulation membrane 490 and are readily available to connect to the adjacent PV panel. Further, one or more of these series connected panels can be connected in parallel to an inverter. Other electrical connections can also be used depending on the needs of a particular system, e.g., panels can be connected in parallel.

Replace the paragraph beginning on page 19 line 26 with the following rewritten paragraph:

For example, a panel 200 having twelve modules 110 wired with the previously described series arrangement can provide 1536 Wstc and 571.2 Voc output. This configuration also contains the wiring for the solar modules 110 within the middle section 160, thereby simplifying the installation procedure. The ~~output~~ connections 430a 430 and 442 can then be directed to a device which can process the solar energy and provide electricity to the building

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structure or reverse metered into a power grid. Further, a protective coating or layer 490 can be applied over the wire leads 170a-181a and 170b-181b for protection from inclement weather, animals, and other environment factors.